

PLAN

PRECAST INVERT MUST BE  $\frac{1}{2}$  DIAMETER OF PIPE AND BRANCHES SHOULD BE SLOPED 2" TOWARD INVERT. MATCH 0.8THS POINT OF MAIN LINE SEWER AND LATERAL BRANCH

MANHOLE STEPS SHALL BE PLACED SO THAT OFFSET VERTICAL PORTION OF CONE IS FACING DOWNSTREAM

ADJUST MANHOLE FRAME AND CASTING TO CITY OF MAPLE GROVE STANDARD PLATE STS-1

NEENAH MANHOLE FRAME AND CASTING R-1642, SELF SEALING B LID, WITH SOLID COVER AND TWO CONCEALED PICK HOLES OR APPROVED EQUAL. LID SHALL BE LABELED "SANITARY SEWER" WITH 2" RAISED LETTERS

CONCRETE ADJUSTMENT RINGS SHALL BE SEALED TO THE CONE, CASTING, AND ONE ANOTHER BY USING A PREPACKAGED MOTOR MIX. TOTAL ADJUSTMENT MINIMUM 4" MAX 14".

PRECAST ECCENTRIC CONE SECTION & RISER SECTIONS AS CONFORMING TO ASTM C478

MANHOLE STEPS, NEENAH R-1981-N OR APPROVED EQUAL, 16" ON CENTER. COPOLYMER POLYPROPYLENE PLASTIC (PSI-PF) AND ALUMINUM STEPS APPROVED.

JOINTS BETWEEN PRECAST SECTIONS SHALL USE PRELUBRICATED PROFILE GASKETS CONFORMING TO ASTM C443.

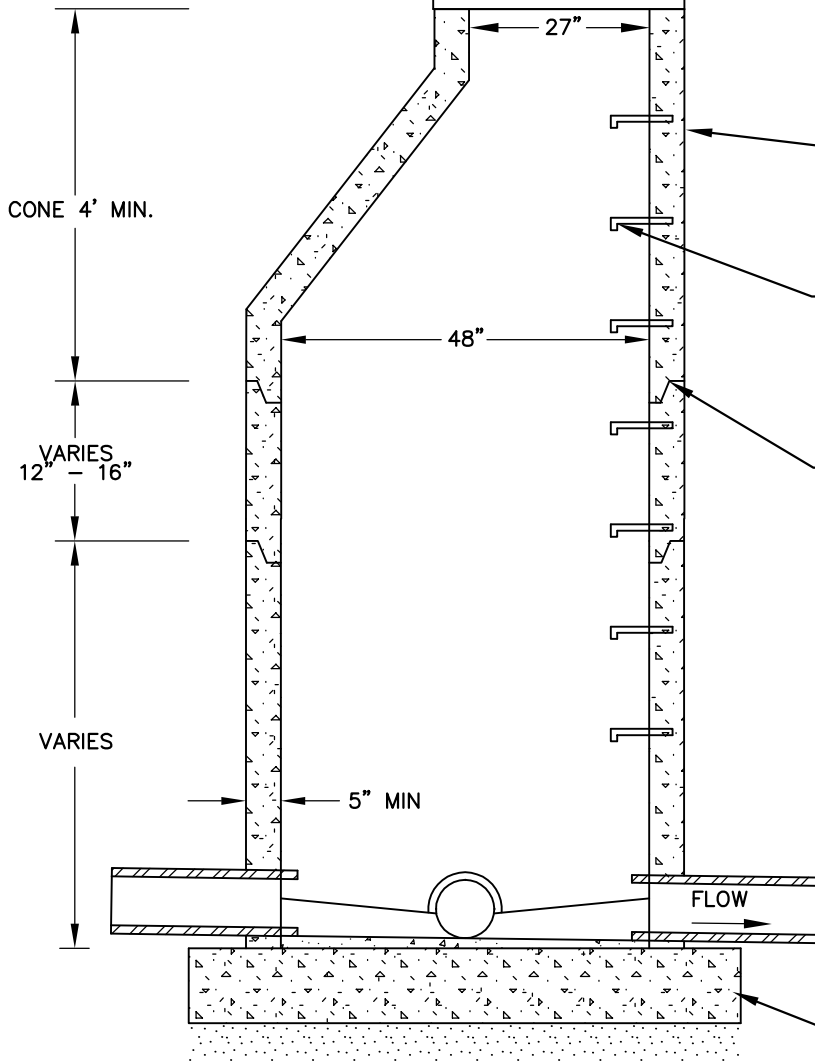
#### NOTES:

ALL WATER TIGHT PIPE CONNECTIONS SHALL CONFORM TO ASTM C923 FOR CONNECTIONS BETWEEN MAINTENANCE HOLE STRUCTURES AND PIPES.

POSITIVE MECHANICAL SEALS SHALL BE KOR-N-SEAL FOR PIPES 24" AND SMALLER. GREATER THAN 24" SHALL BE A-LOK X-CEL.

ALL DOG HOUSES SHALL BE GROUTED ON BOTH INSIDE AND OUTSIDE

MINIMUM THICKNESS OF PRECAST BASE IS 6" FOR 14' DEEP OR LESS, AND INCREASES 1" IN THICKNESS FOR EVERY 4' OF DEPTH GREATER THAN 14'.



SECTION



LAST REVISION  
NOVEMBER 2014

## STANDARD SANITARY MANHOLE

CITY OF MAPLE GROVE ENGINEERING  
& PUBLIC WORKS DEPARTMENTS

STANDARD  
PLATE #  
SS-4